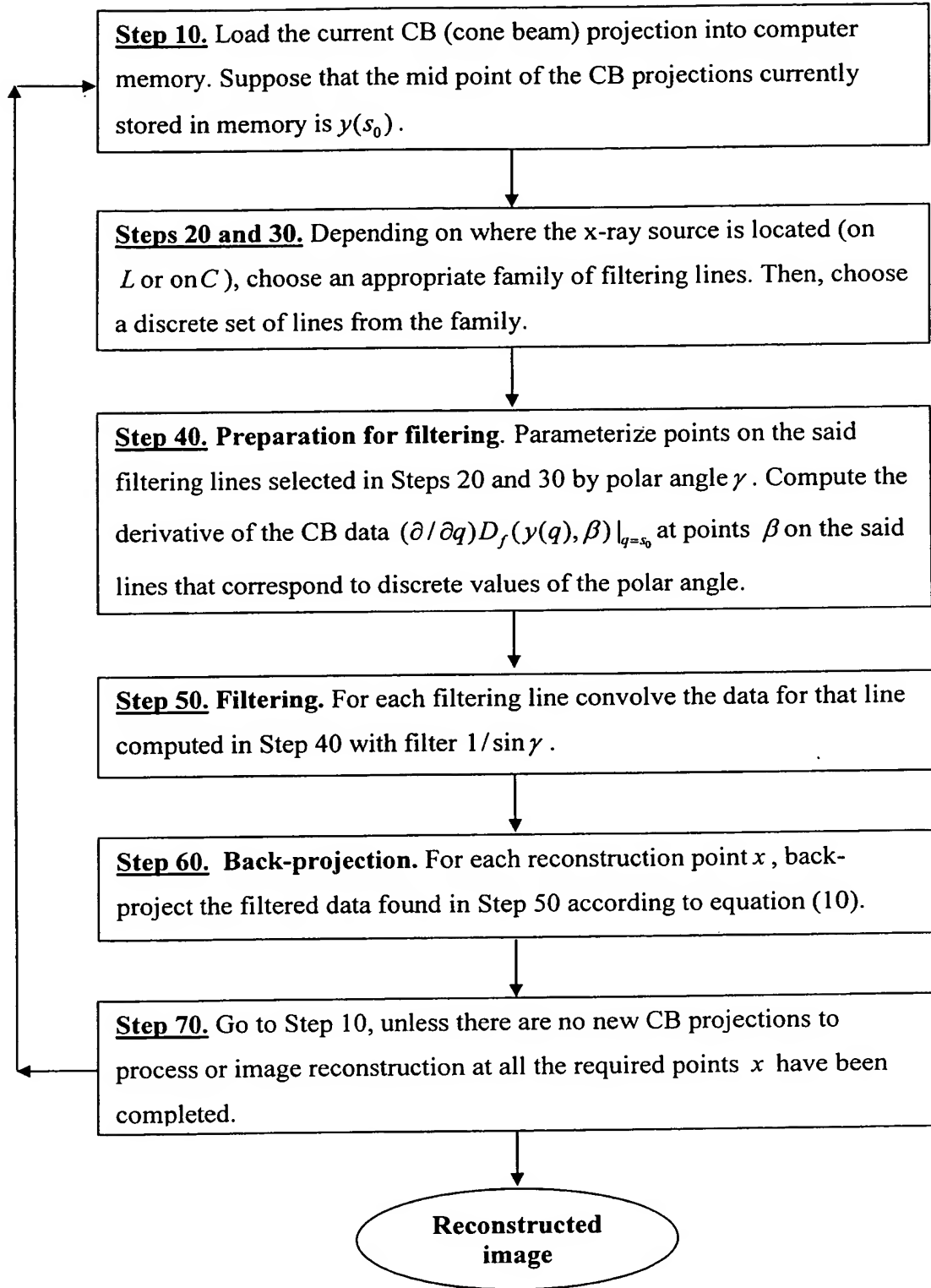


Fig. 1(Prior Art)

Fig. 2



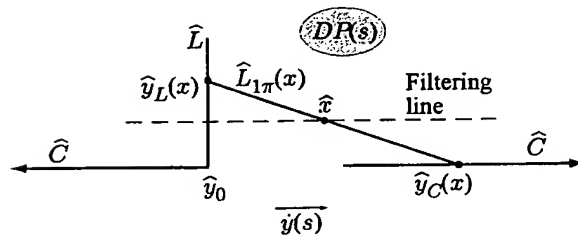


Fig. 7

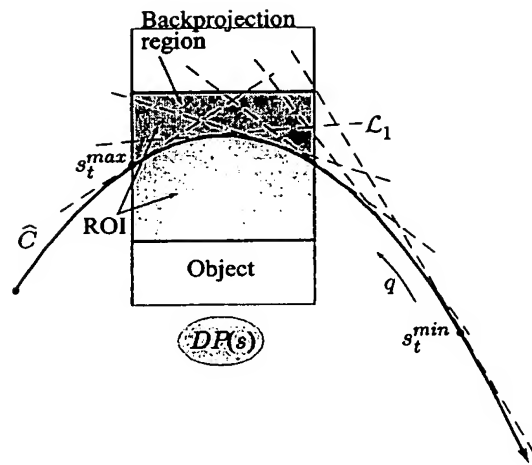


Fig. 8

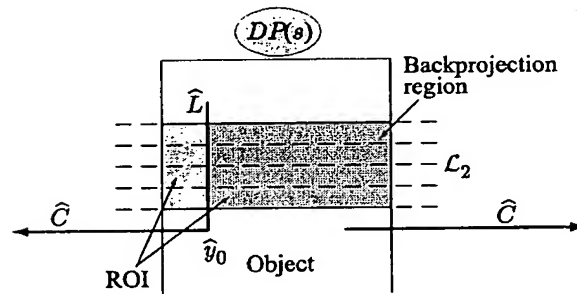


Fig. 9

**Step 20.** Finding families of lines for filtering.

It is assumed the x-ray source is located on the line  $L$ .

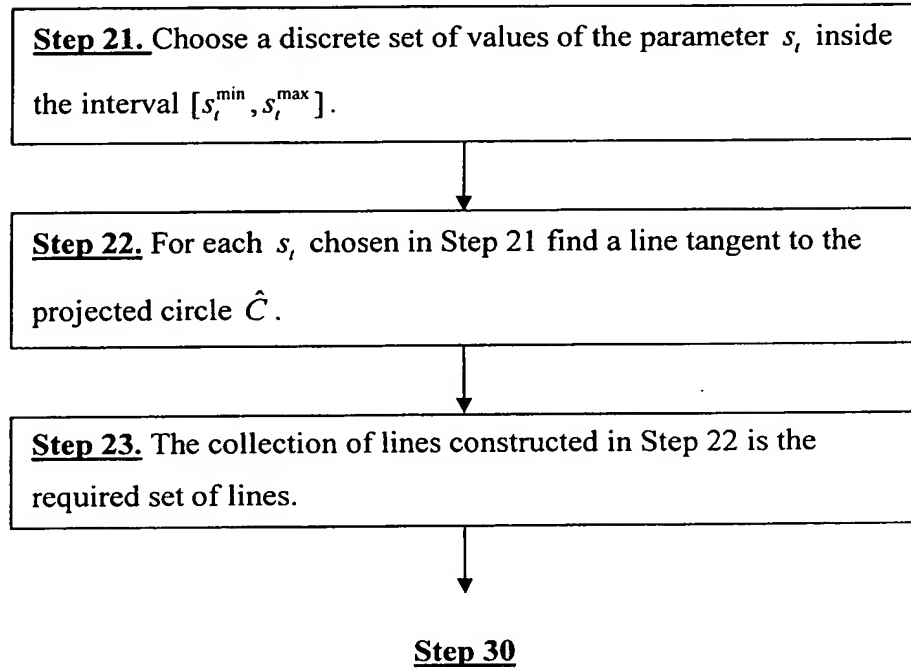


Fig. 10

**Step 40. Preparation for filtering**

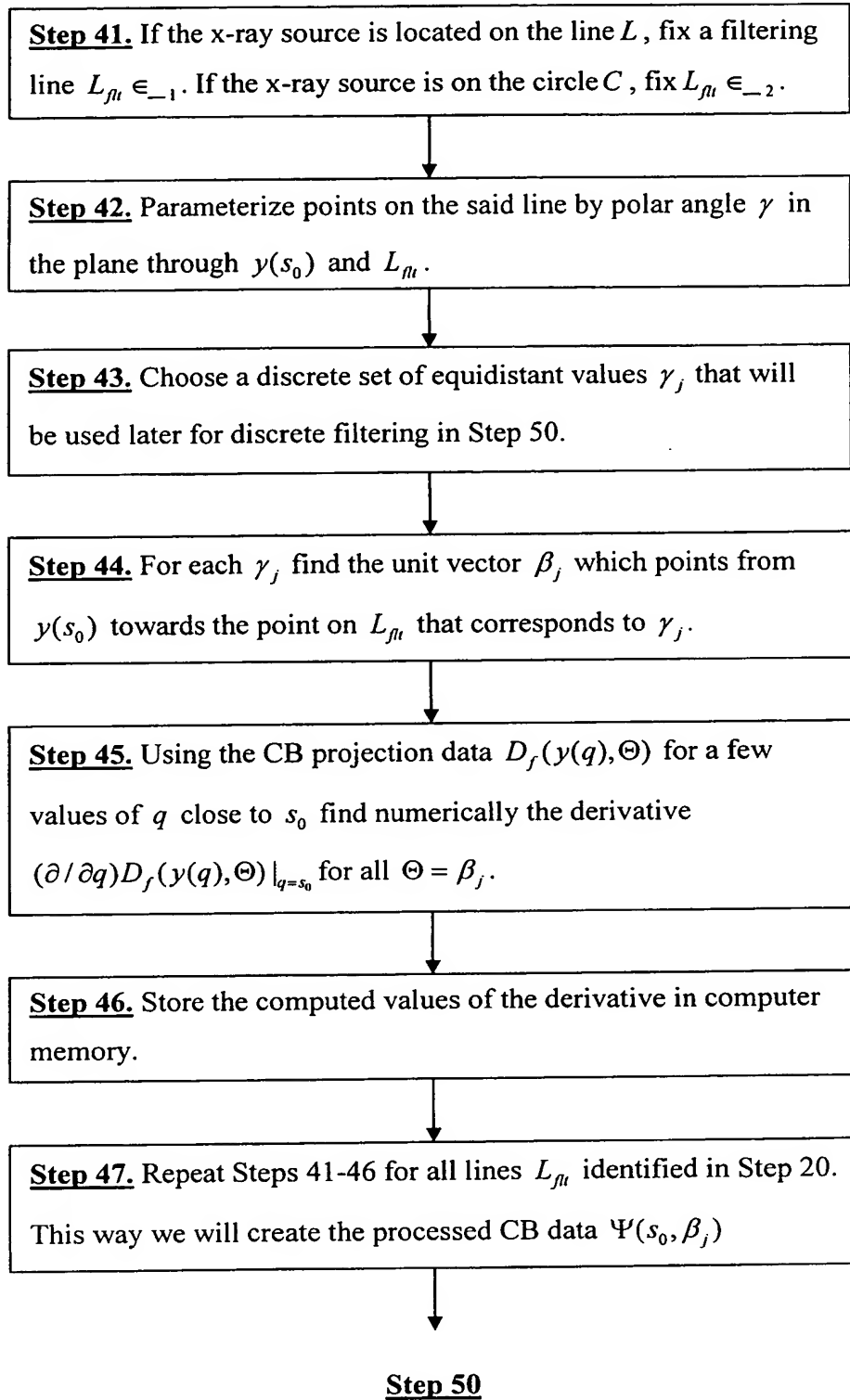


Fig. 11

**Step 50. Filtering**

Step 51. Fix a filtering line  $L_{fl}$ . If the x-ray source is located on the line  $L$ , take  $L_{fl} \in_{-1}$ . If the x-ray source is located on the circle  $C$ , take  $L_{fl} \in_{-2}$ .

Step 52. Compute FFT of the values of the said processed CB data computed in Step 40 along the said line.

Step 53. Compute FFT of the filter  $1/\sin \gamma$

Step 54. Multiply FFT of the filter  $1/\sin \gamma$  (the result of Step 53) and FFT of the values of the said processed CB data (the result of Step 52).

Step 55. Take the inverse FFT of the result of Step 54.

Step 56. Store the result of Step 55 in computer memory.

Step 57. Repeat Steps 51-56 for all lines in the said family of lines. This will give the filtered CB data  $\Phi(s_0, \beta_j)$ .

**Step 60**

Fig. 12

**Step 60. Back-projection**